

ABSTRACT OF THE DISCLOSURE

Folded Node Trench Capacitor

A trench capacitor is filled with a set of two or more storage plates by consecutively depositing layers of dielectric and conductor and making contact to the ground plates by etching an aperture through the plates to the buried plate in the substrate and connecting the one or more ground plate to the substrate; the charge storage plates are connected at the top of the capacitor by blocking the end of the first plate during the formation of the second ground plate and exposing the material of the first storage plate during deposition of the second storage plate.